CLAIMS:

1. Method for transmission of time-critical data packets with the following process steps:

- preparation of data packets separated from each other in time on the transmitter side,
- determination of the relative time position of the individual data packets with respect to each other, using a system clock,
- addition of time information for the data packets,
- transmission of the data packets provided with time information via a wireless transmission link,
- separation and intermediate storage of the data packets on the receiver side,
- synchronization of an additional system clock arranged on the receiver side by means of the transmitted information,
- preparation of the individual data packets with the same time spacings relative to each other as they had on the transmitter side by controlled readout of the intermediate memory, using the transmitted time information.

2. Method according to Claim 1,
characterized by the fact
that the data packets are subjected to data rate conversion on the transmitter side and data rate reconversion on the receiver side.

3. Method according to Claim 1 or 2,
characterized by the fact
that the time information pertaining to a corresponding data block is provided in each data block, or that time information pertaining to a corresponding data block is provided as a separate time information data block.

4. Method according to one of the preceding claims,
characterized by the fact
that preparation of the data packets separated from each other in time on the transmitter side occurs by separation of the data packets from an MPEG transport stream.

5. Method according to Claim 4,
characterized by the fact
that the data packets pertain to one of several radio programs transmitted in the MPEG transport stream.

6. Method according to Claim 5,
characterized by the fact
that the data packets pertain to a television program or a radio program.

7. Method according to one of the preceding claims,
characterized by the fact
that transmission of time-critical data packets occurs from a first consumer electronics device to a second consumer electronics device.

8. Device according to one of the Claims 4 to 7,
characterized by the fact
that the MPEG transport stream is made available by a satellite receiver or a set top box.

9. Consumer electronics device, having:

- a demultiplexer (2) for separation of data packets pertaining to a radio program from an MPEG transport stream,
- a system clock (4),

- a device (3) connected to the system clock to determine the relative time position of the individual data packets,
- a device (3) to add time information to the data packets and
- a transmitter (6) to emit the data packets provided with the time information.

10. Device according to Claim 9,
characterized by the fact
that the device has means for arrangement of the time information pertaining to a corresponding data block in the corresponding data block, or the device has means to arrange time information pertaining to a corresponding data block as a separate time information data block.

11. Device according to Claim 9 or 10,
characterized by the fact
that it also has a data rate converter (5).

12. Consumer electronics device, having:

- a receiver (8) to receive data packets provided with time information,
- a device (10) to separate the data packets,
- a memory (10) to temporarily store the separated data packets,
- a system clock (11) synchronizable by the output signals of the receiver, and
- a device (10) provided with time information to control the readout process from the memory, so that the individual data packets are produced with the same time spacings relative to each other as they had on the transmitter side.

13. Device according to Claim 12,
characterized by the fact that the receiver (8) is a radio receiver.

14. Device according to Claim 12 or 13,
characterized by the fact
that it also has a data rate converter (9).

15. Device according to one of the Claims 12 to 14,
characterized by the fact
that it has an MPEG decoder (12), to which the individual data packets are fed.